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U. S. NAVAL HOSPITAL
MARE ISLAND, VALLEJO, CALIF.

TJC:ejw
NHL5/A9-4(85-2)
27 April 1950

From: Officer in Charge, Artificial Limb Department
To: , Commanding Officer

Subj: Monthly report on the experimental work of the Artificial Limb Department

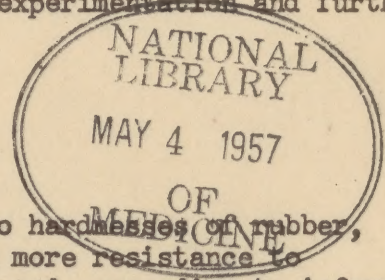
Ref: (a) Advisory Committee on Artificial Limbs ltr of 21 Jun 1948
(b) Research Division ltr of Jun 1949, BUMED CODE 71/DJD:gh *april*

1. Monthly report required by references (a) and (b) is hereby submitted.
2. The following projects are under production, experimentation and further study: (NM 007 084)

(a) Lower Extremities Section:

I. Foot and ankle (NM 007 084.30)

The new type rubber ankle block, having two hard ~~hinges~~ ^{hardnesses} of rubber, is being furnished to amputees who have requested more resistance to dorsi-flexion. Additional cases are being fitted and, according to information gathered, this type of rubber ankle block will be used routinely.



II. Shank (NM 007 084.10)

Molds have been completed for two additional sizes of plastic shins.

III. Knee

(A) Mechanical variable cadence knee joint (NM 007 084.32)

Life tests are continuing on braking materials. The three variable cadence units have been shipped to New York University for field testing.

IV. Cosmetic Problem (NM 007 084.20)

The cosmetic covering for female amputees is being used routinely. Three cases have been fitted with the cosmetic covering for below elbow amputees and find it very satisfactory.

V. Brief summary of models as a unit

(A) Soft socket (NM 007 084.16)

The plastic liner (Boltaflex) is being used routinely on all soft sockets. This includes below elbow, above elbow, and below knee.

(B) Suction socket

No new developments on this problem this month.

(b) Upper Extremities Section:

I. Work is continuing on the re-design of the above elbow lock for

the Navy-Fitch arm.

II. Hands, hooks and tools (NM 007 084.18)

No new developments on this problem.

III. Cosmetic problem

Additional below elbow patients are being fitted with the cosmetic covering for their prostheses.

IV. Harness and/or other outside control (NM 007 084.21)

No new work on this problem.

V. Brief summary of status of models as a unit

The below elbow amputee with a biceps tunnel is continuing to use his prosthesis in a very satisfactory manner and is being transferred to his home for further amputee testing of the prosthesis.

The bilateral above elbow amputee with pectoral cineplastic motors is being furnished a complete new set of arms which will have turntables, supinator and pronator, and wrist flexion units; and will be discharged from the hospital during the month of May.

T. J. CANTY
CDR, MC, USN